

which may store information elements related to a mobile subscriber. In addition to the SIM, the apparatus **10** may include other removable and/or fixed memory. The apparatus **10** may include volatile memory **40** and/or non-volatile memory **42**. For example, volatile memory **40** may include Random Access Memory (RAM) including dynamic and/or static RAM, on-chip or off-chip cache memory, and/or the like. Non-volatile memory **42**, which may be embedded and/or removable, may include, for example, read-only memory, flash memory, magnetic storage devices, for example, hard disks, floppy disk drives, magnetic tape, optical disc drives and/or media, non-volatile random access memory (NVRAM), and/or the like. Like volatile memory **40**, non-volatile memory **42** may include a cache area for temporary storage of data. At least part of the volatile and/or non-volatile memory may be embedded in processor **20**. The memories may store one or more software programs, instructions, pieces of information, data, and/or the like which may be used by the apparatus for performing functions of the user equipment/mobile terminal. The memories may comprise an identifier, such as an international mobile equipment identification (IMEI) code, capable of uniquely identifying apparatus **10**. The functions may include one or more of the operations disclosed with respect to processes **300** and **400** including receiving messages from the accessory via a digital interface to change between power delivery and receive modes, changing power modes, and the like. The memories may comprise an identifier, such as an international mobile equipment identification (IMEI) code, capable of uniquely identifying apparatus **10**. In the example embodiment, the processor **20** may be configured using computer code stored at memory **40** and/or **42** provide to user equipment processes **300** and **400** including receiving messages from the accessory, changing power modes, and the like. The accessory, such as headset **299**, may also include computer code stored at a memory to provide to headset related aspects of processes **300** and **400** and the like.

[0049] Some of the embodiments disclosed herein may be implemented in software, hardware, application logic, or a combination of software, hardware, and application logic. The software, application logic, and/or hardware may reside on memory **40**, the control apparatus **20**, or electronic components, for example. In some example embodiment, the application logic, software or an instruction set is maintained on any one of various conventional computer-readable media. In the context of this document, a “computer-readable medium” may be any non-transitory media that can contain, store, communicate, propagate or transport the instructions for use by or in connection with an instruction execution system, apparatus, or device, such as a computer or data processor circuitry, with examples depicted at FIG. **7**, computer-readable medium may comprise a non-transitory computer-readable storage medium that may be any media that can contain or store the instructions for use by or in connection with an instruction execution system, apparatus, or device, such as a computer.

[0050] Without in any way limiting the scope, interpretation, or application of the claims appearing below, a technical effect of one or more of the example embodiments disclosed herein is power and audio usage via a single connector.

[0051] If desired, the different functions discussed herein may be performed in a different order and/or concurrently with each other. Furthermore, if desired, one or more of the above-described functions may be optional or may be com-

bined. Although various aspects of the invention are set out in the independent claims, other aspects of the invention comprise other combinations of features from the described embodiments and/or the dependent claims with the features of the independent claims, and not solely the combinations explicitly set out in the claims. It is also noted herein that while the above describes example embodiments, these descriptions should not be viewed in a limiting sense. Rather, there are several variations and modifications that may be made without departing from the scope of the present invention as defined in the appended claims. Other embodiments may be within the scope of the following claims. The term “based on” includes “based on at least.” The use of the phrase “such as” means “such as for example” unless otherwise indicated.

1. A method comprising:

detecting, by an accessory including a first connector and a second connector configured to enable coupling to a user equipment, a charger being coupled to the first connector;

sending, based on at least the detected charger, an indication to the user equipment to change to a power receive mode;

detecting, by the accessory, the change to the power receive mode; and

allowing, based on at least the detected change, power to flow from the first connector to the second connector.

2. The method of claim 1, wherein the indication comprises a message sent by the accessory via a digital interface of the accessory.

3. The method of claim 2, wherein the detecting the change to the power receive mode comprises receiving another message from the digital interface of the accessory, and wherein the other message indicates a change in power mode.

4. The method of claim 1, wherein the allowing further comprises:

closing a switch to allow the power to flow from the first connector coupled to the charger to the second connector coupled to the user equipment.

5. The method of claim 1 further comprising:

detecting, by the accessory, a loss of power provided by the charger.

6. The method of claim 5 further comprising:

sending, based on at least the detected power loss, another indication to the user equipment to change to a power source mode.

7. The method of claim 5 further comprising:

opening the switch to disable a connection to the charger and to allow the user equipment to supply power to the accessory via the second connector.

8. The method of claim 7, wherein at least one diode is coupled to the second connector and the switch to prevent a current flow from a capacitor to the second connector and the coupled user equipment, wherein the capacitor provides a momentary source of power to the accessory when the loss of power from the charger occurs.

9. The method of claim 1, wherein the accessory comprises a headset.

10. The method of claim 1, wherein the first connector and the second connector comprise a universal serial bus connector, a Micro-B connector, a Type C connector, a dedicated charging connector, or a combination thereof.